



INVESTOR IN PEOPLE

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I - E21B47/12 ; E21B47/14 ; E21B47/16 ; E21B47/18
TI - BOREHOLE FLOW VELOCITY MEASURING DEVICE

PURPOSE: To provide a borehole flow velocity measuring device measuring the velocity of a high-pressure high-temperature fluid in a boring hole with good accuracy.

- CONSTITUTION: A propeller 34 is arranged in the underground flowing water, the water current velocity is converted into the rotation of the propeller 34, and the rotation is transmitted to a slit disk 33. The slit disk 33 interrupts the light fed through the path constituted of the first optical fiber 12, the first lens 25, a glass window 29 provided on part of the wall of a pressure container 22, a reflector 30, the second lens 26, and the second optical fiber 15, converts it into the intermittent modulating signal of light, and feeds it to a photodetector. The intermittent modulating signal of light is converted into the electrical pulse signal, and the water current velocity is measured by counting the pulse signal.

